AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIRFLOW SUPPLY CFM	AIRFLOW MIN. O.A. CFM	AIRFLOW RETURN CFM	SUPPLY FAN MARK	EXHAUST FAN MARK	PREFILTER MARK	AFTER FILTER MARK	PREHEAT COIL MARK	COOLING COIL MARK	REHEAT COIL	HUMIDIFIER MARK	WEIGHT (LBS)
77-AC6	SA-132	RADIOLOGY 2ND FLOOR	–	22192	5530	16662	SF-6	RF-6	PF-6	AF-6A/B	PHC-6	CC-6	---	SH-6	15667
77-AC8	ROOF	DENTAL CLINIC 3RD FLOOR	–	11063	2901	8162	SF-8	RF-8	PF-8	AF-8A/B	PHC-8	CC-8	---	SH-8	9374
77-AC10	ROOF	IRM 3RD FLOOR	–	9915	2349	7566	SF-10	RF-10	PF-10	AF-10	PHC-10	CC-10	---	SH-10	8374

AIR HANDLERS SHALL BE BALANCED TO THE SUM OF THE TERMINAL UNIT SCHEDULED MAXIMUM AIRFLOWS.

FAN SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	AIRFLOW CFM	TSP IN	FAN TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER IN	DRIVE	FAN MAX RPM	MOTOR ELECTRICAL NOMINAL POWER BHP	NOMINAL POWER HP	PHASE/VOLT	RPM
SF-6	SA-132	77-AC6	22192	8.3	DWDI	AIRFOIL	2	3, CW, THD	28	BELT	1640	39.8	40	3/460	1800
RF-6	SA-132	77-AC6	16662	1.2	DWDI	AIRFOIL	2	3, CW, THD	32	BELT	656	4.9	7.5	3/460	1800
SF-8	ROOF	77-AC8	11063	7.4	DWDI	AIRFOIL	2	3, CW, THD	20	BELT	2296	19.2	20	3/460	1800
RF-8	ROOF	77-AC8	8162	1.2	DWDI	AIRFOIL	2	3, CW, THD	22	BELT	982	2.7	3	3/460	1800
SF-10	ROOF	77-AC10	9915	6.2	DWDI	AIRFOIL	2	3, CW, THD	20	BELT	2086	14.4	15	3/460	1800
RF-10	ROOF	77-AC10	7566	1.3	DWDI	AIRFOIL	2	3, CW, THD	22	BELT	976	2.6	3	3/460	1800

CHILLED WATER COOLING COIL SCHEDULE

MARK	SYSTEM AND/OR SERVICE	AIRFLOW CFM	MAX FACE VELOCITY FPM	APD IN WG	EAT Db °F	EAT Wb °F	LAT Db °F	LAT Wb °F	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	CIRCULATING FLUID FLOW GPM	EWT °F	LWT °F	WPD FT	ROWS
CC-6	77-AC6	22192	452	0.8	80.2	66.4	51.7	51.6	980	697	122	45	61	20	8
CC-8	77-AC8	11063	532	1.2	80.2	66.4	51.7	51.6	489	347	61	45	61	19	8
CC-10	77-AC10	9915	476	1.0	80.2	66.4	51.7	51.6	438	311	55	45	61	16	8

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HOT WATER PREHEAT COIL SCHEDULE

MARK	SYSTEM AND/OR SERVICE	AIRFLOW CFM	MAX FACE VELOCITY FPM	APD IN WG	TEMPERATURES EAT °F	TEMPERATURES LAT °F	TOTAL MIN CAPACITY MBH	HOT WATER FLOW GPM	EWT °F	LWT °F	WPD FT	ROWS
PH-8	77-AC8	11063	651	0.2	25	55	360	16	180	135	7.5	1
PH-10	77-AC10	9915	583	0.1	25	55	322	12	180	126	4.5	1

STEAM PREHEAT COIL SCHEDULE (IFB)

MARK	SYSTEM AND/OR SERVICE	AIRFLOW CFM	MAX FACE VELOCITY FPM	APD IN WG	TEMPERATURES EAT °F	TEMPERATURES LAT °F	TOTAL MIN CAPACITY MBH	STEAM FLOW LBS/HR	PSIG	TRAP	ROWS
PH-6	77-AC6	11096	414	0.1	25	53	335	352	25	704	1

STEAM HUMIDIFER SCHEDULE

MARK	SYSTEM AND/OR SEVICE	HUMIDIFIER TYPE	AIRFLOW CFM	NO. OF MANIFOLDS	EA Db °F	EA %RH	LA %RH	STEAM PRESSURE PSIG	STEAM FLOW LBS/HR
SH-6	77-AC6	DISPERSION TUBE	22192	1	65	26	50	25	337
SH-8	77-AC8	DISPERSION TUBE	11063	1	65	26	50	25	168
SH-10	77-AC10	DISPERSION TUBE	9915	1	65	26	50	25	150

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PUMP SCHEDULE

MARK	SYSTEM AND/OR SERVICE	TYPE	CIRCULATING FLUID FLUID	FLOW GPM	HEAD FT	TEMPERATURE °F	ELECTRICAL MOTOR NOMINAL POWER HP	PHASE	VOLT	MAX RPM
HWP-8	PREHEAT	INLINE	HHW	16	20	180	1/4	1	120	1750
HWP-10	PREHEAT	INLINE	HHW	12	15	180	1/4	1	120	1750

AIR FILTER SCHEDULE

MARK	MERV RATING	AIRFLOW CFM	APD MID-LIFE IN WG
PF-6	8	SEE AHU SCHEDULE	0.627
PF-8	8	SEE AHU SCHEDULE	0.654
PF-10	8	SEE AHU SCHEDULE	0.632
AF-6A	11	SEE AHU SCHEDULE	0.715
AF-6B	14	SEE AHU SCHEDULE	0.847
AF-8A	11	SEE AHU SCHEDULE	0.737
AF-8B	14	SEE AHU SCHEDULE	0.774
AF-10	13	SEE AHU SCHEDULE	0.828

TERMINAL UNIT SCHEDULE

SYSTEM	TAG	INLET (IN)	CFM MAX	CFM MIN	MAX INLET SP (INWG)	GPM
AC-6	TU2-1	10	750	750	0.75	2.0
AC-6	TU2-2	10	900	900	0.75	2.0
AC-6	TU2-3	6	360	360	0.75	1.0
AC-6	TU2-4*	8	580	580	0.75	3.0
AC-6	TU2-5	NOT USED				
AC-6	TU2-6	6	340	340	0.75	1.0
AC-6	TU2-7	8	410	410	0.75	1.5
AC-6	TU2-8	8	405	405	0.75	1.5
AC-6	TU2-9	8	430	430	0.75	1.5
AC-6	TU2-10*	10	800	800	0.75	2.0
AC-6	TU2-11	8	460	460	0.75	1.5
AC-6	TU2-12	12	1000	1000	0.75	3.0
AC-6	TU2-13	10	620	620	0.75	2.0
AC-6	TU2-14	8	550	550	0.75	1.5
AC-6	TU2-15*	10	800	800	0.75	2.0
AC-6	TU2-16	8	490	490	0.75	1.5
AC-6	TU2-17	8	560	560	0.75	1.5
AC-6	TU2-18	8	410	410	0.75	1.5
AC-6	TU2-19	10	790	790	0.75	2.0
AC-6	TU2-20	10	800	800	0.75	2.0
AC-6	TU2-21*	10	800	800	0.75	2.0
AC-6	TU2-22	6	280	280	0.75	1.0
AC-6	TU2-23*	12	1389	1389	0.75	3.0
AC-6	TU2-24	8	614	614	0.75	1.5
AC-6	TU2-25	8	480	480	0.75	1.5
AC-6	TU2-26	10	705	705	0.75	2.0
AC-6	TU2-27	8	560	560	0.75	1.5
AC-6	TU2-28	8	480	480	0.75	1.6
AC-6	TU2-29	8	410	410	0.75	1.5
AC-6	TU2-30	8	430	430	0.75	1.5
AC-6	TU2-31	6	150	150	0.75	1.0
AC-10	TU3-1*	16	1925	963	0.60	6.0
AC-10	TU3-2	6	110	55	0.40	0.5
AC-10	TU3-3*	14	1575	788	0.60	6.0
AC-10	TU3-4	10	775	388	0.50	2.0
AC-10	TU3-5	10	570	285	0.40	2.0
AC-10	TU3-6	10	295	295	0.40	1.0
AC-10	TU3-7A/B	NOT USED				
AC-10	TU3-8	8	340	170	0.40	1.0
AC-10	TU3-9*	12	650	325	0.50	4.0
AC-10	TU3-10	12	685	343	0.50	4.0
AC-10	TU3-11	12	675	338	0.50	4.0
AC-10	TU3-12	12	770	385	0.50	4.0
AC-8	TU3-13*	12	910	455	0.50	4.0
AC-8	TU3-14	6	95	95	0.40	0.5
AC-8	TU3-15	8	240	240	0.40	1.0
AC-8	TU3-16	12	905	905	0.40	2.0
AC-8	TU3-17	6	160	80	0.40	0.5
AC-8	TU3-18	8	285	285	0.40	1.0
AC-8	TU3-19*	14	1420	1420	0.60	6.0
AC-8	TU3-20	10	565	283	0.40	2.0
AC-8	TU3-21	16	1900	1900	0.75	6.0
AC-8	TU3-22	8	500	250	0.40	1.0
AC-8	TU3-23	8	210	210	0.40	1.0
AC-8	TU3-24	12	895	895	0.40	2.0
AC-8	TU3-25	10	355	355	0.50	2.0
AC-8	TU3-26	10	300	300	0.50	2.0
AC-8	TU3-27	10	455	455	0.50	2.0
AC-8	TU3-28	10	505	505	0.40	2.0

NOTES:

1. EWT: 180° F, EAT: 55° F, REHEAT COIL SELECTED AT 50% OF MAX CFM, MAX WPD: 5 FT FOR VAV, 10 FT FOR CAV, MAX DISCHARGE NC: 27. UNITS WITH ASTERIX UTILIZE 3-WAY CONTROL VALVES AND BYPASS, ALL OTHERS ARE 2-WAY.

ROOF CURB

MARK	DESCRIPTION
RC-8, 10	30" HIGH ROOF CURB WITH 1½" FACED INSULATION. FULLY-WELDED CONSTRUCTION WITH LOAD-DISTRIBUTING INTERNAL REINFORCEMENT. CURB SHALL BE CERTIFIED TO COMPLETELY SUPPORT WEIGHT OF AIR HANDLING UNIT AND INCLUDE ALL NECESSARY GASKETING, CLOSURE ANGLES, ETC. CURB SHALL BE CONSTRUCTED OF PRIMED AND PAINTED STEEL.

SUPPLY DIFFUSER

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MARK	NECK SIZE	DESCRIPTION
SD-1	6X6	MODULAR CORE DIFFUSER, STEEL, WHITE, OPPOSED BLADE DAMPER. PROVIDE WITH NECESSARY DUCT TRANSITION.
SD-2	10X10	MODULAR CORE DIFFUSER, STEEL, WHITE, OPPOSED BLADE DAMPER. PROVIDE WITH NECESSARY DUCT TRANSITION.
SD-3	12X12	MODULAR CORE DIFFUSER, STEEL, WHITE, OPPOSED BLADE DAMPER. PROVIDE WITH NECESSARY DUCT TRANSITION.

SCALE: 3/4"=1'-0" 0 2 4 8 12

SCALE: 1/2"=1'-0" 0 2 4 8 12

SCALE: 1/4"=1'-0" 0 2 4 8 12

SCALE: 1/8"=1'-0" 0 2 4 8 12

DATE	REVISIONS
5/7/12	REVISION 1
5/29/12	REVISION 2

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Approved : Project Engineer
Approved : Associate Director
Approved : Supervisory Engineer
Approved : Director
Approved : VP FMS
Approved :

IF THIS SHEET DOES NOT MEASURE 42" X 30" IT IS A REDUCED PRINT. SCALE ACCORDINGLY.

Drawing Title: SCHEDULES

Project Title: REPLACE AIR HANDLER UNITS BUILDING 77

Date: 4/24/12

Project No.: 621-11-127

Drawn: BMA

Building Number: 77

Checked: PM

Location: JAMES H. QUILLEN VA MEDICAL CENTER MOUNTAIN HOME, TN

Drawing No. 77-MH5

Dwg 11 Of 20

Department of Veterans Affairs